

12/02/2000

COPY

11-2-00

FORM PTO-1595  
1-31-92

101536243

FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE

TS ONLY

Tab settings ⇐ ⇐ ⇐

B10-25562USY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Shaoping Li, Theodore Zhu, Anthony S. Arrott,  
Harry Liu, William L. Larson, Yong LuAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: 11/14/00, 10/13/00, 10/23/00, 10/16/00

## 2. Name and address of receiving party(ies):

Name: Honeywell Inc.

Internal Address: Honeywell International Inc.

Street Address: 101 Columbia Road

P.O. Box 2245

City: Morristown State: NJ ZIP: 07962-2245

Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 4. Application number(s) or patent number(s): 09/618,504

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) 09/618,504

B. Patent No. (s)

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Kris T. Fredrick

Internal Address: Honeywell International Inc.

Street Address: 101 Columbia Road,

P.O. Box 2245

City: Morristown State: NJ ZIP: 07962-2245

## 6. Total number of applications and patents involved:

1

## 7. Total fee (37 CFR 3.41) \$40.00

- ☐ Enclosed  
☒ Authorized to be charged to deposit account

## 8. Deposit account number:

01-1125

DO NOT USE THIS SPACE

3/01/2000 MTHAI1 00000314 011125 09618504

FC:581 40.00 CH

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Kris T. Fredrick

Name of Person Signing

Signature

Date

11-15-00

Total number of pages of attached conveyance document (including attachments):

4

COPY

JOINT  
PATENT

FILE NO. B10-25562US

ASSIGNMENT

WHEREAS, SHAOPING LI of NAPERVILLE, County of WILL, and State of ILLINOIS, THEODORE ZHU of MAPLE GROVE, County of HENNEPIN, and State of MINNESOTA, ANTHONY S. ARROTT of WASHINGTON, D.C. DISTRICT OF COLUMBIA, HARRY LIU of PLYMOUTH, County of HENNEPIN, and State of MINNESOTA, WILLIAM L. LARSON of EDEN PRAIRIE, County of HENNEPIN, and State of MINNESOTA and YONG LU of PLYMOUTH, County of HENNEPIN, and State of MINNESOTA have invented certain new and useful improvements in MRAM ARCHITECTURES FOR INCREASED WRITE SELECTIVITY for which an application is about to be made for Letters Patent of the United States, said application having been executed on the 14th day of Nov., 2000, the 13th day of Oct, 2000, the 23rd day of Oct, 2000, 13th day of Oct, 2000, 16th day of Oct, 2000, 13th day of Oct, 2000, and

Whereas, Honeywell International Inc., a corporation organized and existing under the laws of the State of Delaware, and having its principal offices at 101 Columbia Road, P.O. Box 2245, Morristown, NJ 07962-2245 U.S.A. is desirous of acquiring the entire right, title and interest in and to said invention, said application and in, to and under any and all Letters Patent to be obtained therefor;

Now, therefore, for good and valuable consideration to us paid by the said Honeywell International Inc., the receipt of which is hereby acknowledged, we have sold, assigned and transferred, and by these presents do hereby sell, assign and transfer unto the said Honeywell International Inc., its successors and assigns, our entire right, title and interest in and to said invention, said application and the Letters Patent, both foreign and domestic, that may or shall issue, including all of our rights under any and all international conventions, treaties and/or agreements concerning patents to which the United States is a party, and we do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to the above mentioned assignee in accordance herewith.

We further authorize said assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent, in its own name if desired, in any and all foreign countries, and additionally to claim the filing date of said United States application and/or otherwise take advantage of the provisions of any international convention, treaty and/or agreement.

We do hereby covenant and agree with the said assignee, its successors and assigns, that we will not execute any writing or do any act whatsoever conflicting with these presents, and that we or our executors or administrators will at any time upon request, without further or additional consideration, but at the expense of the said assignee, its successors and assigns, execute such additional writings and do such additional acts as said assignee, its successors and assigns, may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, or any of and all foreign countries on said invention, and in enforcing any rights, occurring as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents.

COPY

Date NOVEMBER 14, 2000

Shaop Li  
SHAOPING LI

State of MINNESOTA)

County of DAKOTA)ss.

On this 14 day of NOVEMBER, 2000, before me personally appeared SHAOPING LI, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.



Marcia A. Ramthun  
Notary Public, County DAKOTA  
State of MINNESOTA  
My Commission Expires 1-31-2005

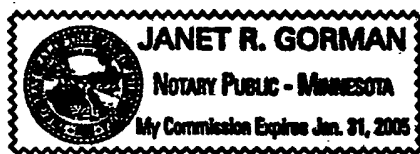
Date October 13, 2000

Theodore Zhu  
THEODORE ZHU

State of Minnesota)

County of Hennepin)ss.

On this 13th day of October, 2000, before me personally appeared THEODORE ZHU, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.



Janet R. Gorman  
Notary Public, County Hennepin  
State of Minnesota  
My Commission Expires 1-31-2005

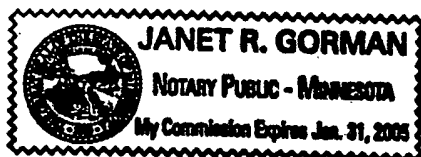
Date 10/23, 2000

Anthony S. Arrott  
ANTHONY S. ARROTT

State of Minnesota)

County of Hennepin)ss.

On this 23rd day of October, 2000, before me personally appeared ANTHONY S. ARROTT, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.



Janet R. Gorman  
Notary Public, County Hennepin  
State of Minnesota  
My Commission Expires Jan. 31, 2005

Date October 13, 2000

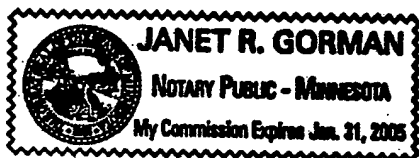
COPY

HARRY LIU  
HARRY LIU

State of Minnesota

County of Hennepin

On this 13<sup>th</sup> day of October, 2000, before me personally appeared HARRY LIU, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.



Janet R. Gorman  
Notary Public, - County Hennepin  
State of Minnesota  
My Commission Expires 1-31-2005

Date Oct. 16, 2000

State of Minnesota

County of Hennepin

On this 16<sup>th</sup> day of October, 2000, before me personally appeared WILLIAM L. LARSON, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.



William L. Larson  
WILLIAM L. LARSON

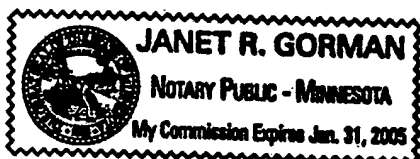
Colleen Sue Dupont  
Notary Public, - County Hennepin  
State of  
My Commission Expires Jan. 31, 2005

Date 10 / 13, 2000

State of Minnesota

County of Hennepin

On this 13<sup>th</sup> day of October, 2000, before me personally appeared YONG LU, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.



Yong Lu  
YONG LU

Janet R. Gorman  
Notary Public, - County Hennepin  
State of Minnesota  
My Commission Expires 1-31-2005

8  
COPY



8  
H25562 KF  
UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

FEBRUARY 02, 2001

PTAS

HONEYWELL INTERNATIONAL INC.  
KRIS T. FREDRICK  
101 COLUMBIA ROAD  
P.O. BOX 2245  
MORRISTOWN, NJ 07962-2245



\*101536243A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 11/20/2000

REEL/FRAME: 011283/0195  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

LI, SHAOPING

DOC DATE: 11/14/2000

ASSIGNOR:

ZHU, THEODORE

DOC DATE: 10/13/2000

ASSIGNOR:

ARROTT, ANTHONY S.

DOC DATE: 10/23/2000

ASSIGNOR:

LIU, HARRY

DOC DATE: 10/13/2000

ASSIGNOR:

LARSON, WILLIAM L.

DOC DATE: 10/16/2000

ASSIGNOR:

LU, YONG

DOC DATE: 10/13/2000

RECEIVED

FEB 13 2001

HONEYWELL LEGAL

RECEIVED  
PATENT AND TRADEMARK  
OFFICE  
FEB 13 - 1 P 6:40  
CENTRAL RECORDS - HTO

AKF 2/10/01

011283/0195 PAGE 2

COPY

ASSIGNEE:

HONEYWELL INC.

HONEYWELL INTERNATIONAL INC.

101 COLUMBIA ROAD - P.O. BOX 2245

MORRISTOWN, NEW JERSEY 07962-2245

SERIAL NUMBER: 09618504

PATENT NUMBER:

FILING DATE: 07/18/2000

ISSUE DATE:

SHAREILL COLES, EXAMINER

ASSIGNMENT DIVISION

OFFICE OF PUBLIC RECORDS



UNITED STATES  
PATENT AND  
TRADEMARK OFFICE

MICRON.198A R.S.  
ASA-MSO

COPY

MAY 29, 2002

PTAS  
KNOBBE, MARTENS, OLSON & BEAR, LLP  
ADEEL S. AKHTAR  
620 NEWPORT CENTER DRIVE  
SIXTEENTH FLOOR  
NEWPORT BEACH, CA 92660

Chief Information Officer  
Washington, DC 20231  
www.uspto.gov



\*102101707A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 09/28/2001

REEL/FRAME: 012735/0417  
NUMBER OF PAGES: 8

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

HONEYWELL INTERNATIONAL, INC.

DOC DATE: 12/18/2000

ASSIGNEE:

MICRON TECHNOLOGY, INC.  
8000 SOUTH FEDERAL WAY  
P.O. BOX 6  
BOISE, IDAHO 83707-0006

SERIAL NUMBER: 09318073  
PATENT NUMBER:

FILING DATE: 05/25/1999  
ISSUE DATE:

SERIAL NUMBER: 09618237  
PATENT NUMBER:

FILING DATE: 07/18/2000  
ISSUE DATE:

SERIAL NUMBER: 09618256  
PATENT NUMBER: 6396733

FILING DATE: 07/17/2000  
ISSUE DATE: 05/28/2002

SERIAL NUMBER: 09618492  
PATENT NUMBER:

FILING DATE: 07/18/2000  
ISSUE DATE:

COPY

012735 0417 PAGE 2

SERIAL NUMBER: 09618504 /  
PATENT NUMBER:

FILING DATE: 07/18/2000 /  
ISSUE DATE:

SERIAL NUMBER: 09638415  
PATENT NUMBER: 6363007

FILING DATE: 08/14/2000  
ISSUE DATE: 03/26/2002

SERIAL NUMBER: 09638419  
PATENT NUMBER: 6392922

FILING DATE: 08/14/2000  
ISSUE DATE: 05/21/2002

SERIAL NUMBER: 09638637  
PATENT NUMBER:

FILING DATE: 08/14/2000  
ISSUE DATE:

SERIAL NUMBER: 09668922  
PATENT NUMBER:

FILING DATE: 09/25/2000  
ISSUE DATE:

SERIAL NUMBER: 08962512  
PATENT NUMBER: 5939772

FILING DATE: 10/31/1997  
ISSUE DATE: 08/17/1999

SERIAL NUMBER: 08993009  
PATENT NUMBER: 5956267

FILING DATE: 12/18/1997  
ISSUE DATE: 09/21/1999

SERIAL NUMBER: 08962518  
PATENT NUMBER: 5982658

FILING DATE: 10/31/1997  
ISSUE DATE: 11/09/1999

SERIAL NUMBER: 08940587  
PATENT NUMBER: 6027948

FILING DATE: 09/30/1997  
ISSUE DATE: 02/22/2000

SERIAL NUMBER: 08993005  
PATENT NUMBER: 6048739

FILING DATE: 12/18/1997  
ISSUE DATE: 04/11/2000

SERIAL NUMBER: 09365308  
PATENT NUMBER: 6134138

FILING DATE: 07/30/1999  
ISSUE DATE: 10/17/2000

SERIAL NUMBER: 09396189  
PATENT NUMBER: 6147922

FILING DATE: 09/14/1999  
ISSUE DATE: 11/14/2000

SERIAL NUMBER: 09429664  
PATENT NUMBER: 6175525

FILING DATE: 10/28/1999  
ISSUE DATE: 01/16/2001

SERIAL NUMBER: 09455850  
PATENT NUMBER: 6178111

FILING DATE: 12/07/1999  
ISSUE DATE: 01/23/2001

SERIAL NUMBER: 09059871  
PATENT NUMBER: 6269027

FILING DATE: 04/14/1998  
ISSUE DATE: 07/31/2001

SERIAL NUMBER: 06879679  
PATENT NUMBER: 4731757

FILING DATE: 06/27/1986  
ISSUE DATE: 03/15/1988

SERIAL NUMBER: 06908075  
PATENT NUMBER: 4751677

FILING DATE: 09/16/1986  
ISSUE DATE: 06/14/1988

SERIAL NUMBER: 07008211  
PATENT NUMBER: 4754431

FILING DATE: 01/28/1987  
ISSUE DATE: 06/28/1988



COPY

0127350417 PAGE 3

SERIAL NUMBER: 06870068  
PATENT NUMBER: 4780848

FILING DATE: 06/03/1986  
ISSUE DATE: 10/25/1988

SERIAL NUMBER: 07078612  
PATENT NUMBER: 4829476

FILING DATE: 07/28/1987  
ISSUE DATE: 05/09/1989

SERIAL NUMBER: 07168293  
PATENT NUMBER: 4897288

FILING DATE: 03/15/1988  
ISSUE DATE: 01/30/1990

SERIAL NUMBER: 07161534  
PATENT NUMBER: 4918655

FILING DATE: 02/29/1988  
ISSUE DATE: 04/17/1990

SERIAL NUMBER: 07404003  
PATENT NUMBER: 4953002

FILING DATE: 09/05/1989  
ISSUE DATE: 08/28/1990

SERIAL NUMBER: 07504777  
PATENT NUMBER: 5012444

FILING DATE: 04/04/1990  
ISSUE DATE: 04/30/1991

SERIAL NUMBER: 07505090  
PATENT NUMBER: 5060193

FILING DATE: 04/04/1990  
ISSUE DATE: 10/22/1991

SERIAL NUMBER: 07507682  
PATENT NUMBER: 5064499

FILING DATE: 04/09/1990  
ISSUE DATE: 11/12/1991

SERIAL NUMBER: 08061603  
PATENT NUMBER: 5349302

FILING DATE: 05/13/1993  
ISSUE DATE: 09/20/1994

SERIAL NUMBER: 08365852  
PATENT NUMBER: 5496759

FILING DATE: 12/29/1994  
ISSUE DATE: 03/05/1996

SERIAL NUMBER: 08576279  
PATENT NUMBER: 5569617

FILING DATE: 12/21/1995  
ISSUE DATE: 10/29/1996

SERIAL NUMBER: 08576732  
PATENT NUMBER: 5756366

FILING DATE: 12/21/1995  
ISSUE DATE: 05/26/1998

SHARON BROOKS, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

Client Code: MICRON.173GEN

05-28-2002

COPY  
9/28/01



102101707

TO THE ASSISTANT COMMISSIONER FOR P.T.

uments or copy thereof.

1. Name of conveying party(ies): (If multiple assignors, list numerically)

H neywell International, Inc.

Additional name(s) of conveying party(ies) attached?  
( ) Yes (X) No

2. Name and address of receiving party(ies):

Name: Micron Technology, Inc.  
Internal Address: P.O. Box 6  
Street Address: 8000 South Federal Way  
City: Boise State: Idaho ZIP: 83707-0006

Additional name(s) of receiving party(ies) attached?  
( ) Yes (X) No

3. Nature of conveyance:

- (x) Assignment - Nunc Pro Tunc  
( ) Merger  
( ) Security Agreement  
( ) Change of Name  
( ) Other:

Execution Date: (If multiple assignors, list execution dates in numerical order corresponding to numbers indicated in 1 above) December 18, 2000

4. Application number(s) or Patent number(s):

( ) Application(s) filed herewith Execution Date(s):

(x) Patent Application No.: See ATTACHMENT A  
Filing Date: See ATTACHMENT A

(x) Patent No.: See ATTACHMENT B  
Issue Date: See ATTACHMENT B

Additional numbers attached? ( ) Yes (X) No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Adeel S. Akhtar  
KNOBBE, MARTENS, OLSON & BEAR, LLP  
Customer No. 20,995  
Internal Address: Sixteenth Floor  
Street Address: 620 Newport Center Drive  
City: Newport Beach State: CA ZIP: 92660  
Attorney's Docket No.: MICRON.173GEN

7. Total fee (37 CFR 1.21(h)): \$1,360

(X) Enclosed  
0 Authorized to be charged to deposit account

8. Deposit account number: 11-1410

Please charge this account for any additional fees which may be required, or credit any overpayment to this account.

6. Total number of applications and patents involved: 34

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of the original document.

Adeel S. Akhtar  
Name of Person Signing

Signature

Date

September 25, 2001

Registration No. 41,394

Total number of pages including cover sheet, attachments and document: 8

Mail documents to be recorded with required cover sheet information t :

01/2001 J1ALLW2 00000010 09318073

FC:581

1360.00 00

U.S. Patent and Trademark Office  
Attn: Assignment Division  
Crystal Gateway-4  
1213 Jefferson Davis Highway, Suit 320  
Arlington, VA 22202

RECORDPA  
W:\DOCS\ASA\ASA-10109.DOC 092501

COPY

**ATTACHMENT A**  
**PENDING PATENTS**

Serial No.	Filing Date	Title	Former Docket No.	Docket No. (Client No.)
09/318,073	5/25/99	Local Shielding for Memory Cells	25561	MICRON.196CP1
09/618,237	7/18/00	Magneto-Resistive Memory Array	26090	MICRON.211A
09/618,256	7/17/00	Magneto-Resistive Memory Having Sense Amplifier with Offset Control	26310	MICRON.210A
09/618,492	7/18/00	Memory Redundancy with programmable Non-Volatile Control	26083	MICRON.212A
09/618,504	7/18/00	MRAM Architectures for Increased Write Selectivity	25562	MICRON.198A
09/638,415	8/14/00	Magneto-Resistive Memory with Shared Wordline and Sense Line	26091	MICRON.213A
09/638,419	8/14/00	Passivated Magneto-Resistive Bit Structure and Passivation Method Therefor	25637	MICRON.214A
09/638,637	8/14/00	Pulsed Write Techniques for Magneto-Resistive Memories	26025	MICRON.215A
09/668,922	9/25/00	Shielding Arrangement to Protect A Circuit From Stray Magnetic Fields	26347	MICRON.216A

COPY

Patent N .	Issue Date	Title	Former Docket No.	Docket No. (Client N .)
5,939,772	8/17/99	Shielded Package for Magnetic Devices	17179	MICRON.197A
5,956,267	9/21/99	Self-Aligned Wordline Keeper and Method of Manufacture Therefor	17079	MICRON.196A formerly 201A
5,982,658	11/9/99	MRAM Design to Reduce Dissimilar Nearest Neighbor Effects	16578	MICRON.208A
6,027,948	2/22/00	Method to Permit high Temperature Assembly Processes for Magnetically Sensitive Devices	17037	MICRON.207A
6,048,739	4/11/00	Method of Manufacturing a High Density Magnetic Memory Device	17078	MICRON.209A
6,134,138	10/17/00	Method and Apparatus for Reading a Magnetoresistive Memory	25598	MICRON.206A
6,147,922	11/14/00	Non-Volatile Storage Latch	17156A1	MICRON.185DV1
6,175,525	1/16/01	Non-Volatile Storage Latch	17156B1	MICRON.185CP1
6,178,111	1/23/01	Method and Apparatus for Writing Data States to Non-Volatile Storage Devices	25563	MICRON.199A
6,269,027	7/31/01	Non-Volatile Storage Latch	17156/25629	MICRON.185A

**ATTACHMENT B  
ISSUED PATENTS**

**COPY**

Patent No.	Issue Date	Title	Former Docket No.	Docket No. (Client No.)
4,731,757	3/15/88	Magnetoresistive Memory Including Thin Film Storage Cells Having Tapered Ends	10790	MICRON.189A
4,751,677	6/14/88	Differential Arrangement Magnetic Memory Cell	11874	MICRON.187A
4,754,431	6/28/88	Vialess Shorting Bars for Magnetoresistive Devices	12062	MICRON.195A
4,780,848	10/25/88	Magnetoresistive Memory with Multi-Layer Storage Cells Having layers of Limited Thickness	10789	MICRON.188A
4,829,476	5/9/89	Differential Magnetoresistive Memory Sensing	12056	MICRON.186A
4,897,288	1/30/90	Vialess Shorting Bars for Magnetoresistive Devices	12724	MICRON.192DV1
4,918,655	4/17/90	Magnetic Device Integrated Circuit Interconnection System	12092	MICRON.194A
4,953,002	8/28/90	Semiconductor Device Housing with Magnetic Field Protection	12035	MICRON.203FW1
5,012,444	4/30/91	Opposed Field Magnetoresistive Memory Sensing	13117	MICRON.191A
5,060,193	10/22/91	Magnetic State Entry Assurance	13268	MICRON.190A
5,064,499	11/12/91	Inductively Sensed Magnetic Memory	12173	MICRON.193A
5,349,302	9/20/94	Sense Amplifier Input Stage for Single Array Memory	13490	MICRON.202A
5,496,759	3/5/96	Highly Productive Magnetoresistive RAM Process	15742	MICRON.204A
5,569,617	10/29/96	Integrated Spacer for Magnetoresistive RAM	16139	MICRON.205A
5,756,366	5/26/98	Magnetic hardening of Bit Edges of Magnetoresistive RAM	16251	MICRON.200A

COPY

NUNC PRO TUNC ASSIGNMENT

Effective as of December 18, 2000, Honeywell International Inc., a Delaware corporation, acting through its Solid State Electronics Center having a principal place of business at 12001 State Hwy 55, Plymouth, Minnesota, and Honeywell Intellectual Properties Inc., an Arizona corporation having a principal place of business at 8440 South Hardy Dr., Tempe, Arizona, (collectively referred to as "Honeywell") hereby make the following assignments for good and valuable consideration to Micron Technology Inc., a Delaware corporation having a principal place of business at 8000 S. Federal Way, Boise, Idaho: all right, title, and interest in the patents and patent applications listed in Appendix A and any of their related continuation, continuation-in-part, divisional or reissue applications or patents and any foreign counterpart applications or patents which now exist or which may later exist.

MICRON TECHNOLOGY, INC.

Signature: [Signature]Printed Name: David L. LyndTitle: Chief Patent Counsel

HONEYWELL INTERNATIONAL, INC.

Signature: [Signature]Printed Name: DAVID S. HORNERTitle: Chief Patent CounselHONEYWELL INTELLECTUAL  
PROPERTIES, INCSignature: [Signature]Printed Name: KEITH ADAMSTitle: DIRECTOR - LICENSING

# Appendix SCHEDULE A (2 pages)

# COPY

## SSEC MRAM Intellectual Property

Patent Number	Title	First Inventor	Filing Date	Countries
<b>Issued Patents</b>				
4,731,757	MAGNETIC MEMORY CONFIGURATION	HUANG, J.S.T.	3/15/88	Japan/US
4,751,677	HIGH SPEED MR MEMORY	DAUGHTON, J.M.	6/14/88	Japan/US
4,780,848	MAGNETORESISTIVE MEMORY WITH MULTI-LAYER STORAGE CELLS HAVING LAYERS OF LIMITED THICKNESS	DAUGHTON, J.M.	10/25/88	US/EP/Netherlands/Japan/Great Britain/Germany/France/Italy/Canada
4,829,476	A DIFFERENTIAL CIRCUIT ARCHITECTURE FOR A MAGNETO-RESISTIVE MEMORY	HANAWALT, R.E.	5/9/1989	US
4,897,288	VIALESS SHORTING BARS FOR MAGNETORESISTIVE DEVICES	JENSON, M.L.	1/30/90	US
4,918,655	COMPOSITE IC METALLURGY AND MAGNETIC SANDWICH FOR INTERCONNECTIONS	DAUGHTON, J.M.	4/17/90	US/Netherlands/Japan/Germany/Great Britain/France/Canada/EP
5,012,444	OPPOSED FIELD MAGNETORESISTIVE MEMORY SENSING	HURST, Alan T.	4/30/91	US/Netherlands/Japan/Germany/Great Britain/France/Canada/EP
5,060,193	MAGNETIC STATE ENTRY ASSURANCE	DAUGHTON, J.M.	10/22/91	US/Netherlands/Japan/Germany/Great Britain/France/Canada/EP
5,064,499	INDUCTIVELY SENSED MAGNETIC MEMORY MANUFACTURING METHOD (AS AMENDED)	FRYER, R.B.	11/12/91	US
5,349,302	SENSE AMPLIFIER INPUT STAGE FOR SINGLE ARRAY MEMORY	COOPER, L.K.	9/20/94	US
5,496,759	HIGHLY PRODUCIBLE MRAM PROCESS	CHEN, H.J.	3/5/96	US
5,569,617	INTEGRATED SPACER FOR MAGNETORESISTIVE RAM	BERG, Lonny L.	10/23/96	US/EP/PT
5,758,366	MAGNETIC HARDENING OF BIT EDGES OF MAGNETORESISTIVE RAM	BERG, Lonny L.	5/26/98	US/EP/PT
5,956,267	SELF-ALIGNED WORDLINE KEEPER AND METHOD OF MANUFACTURE THEREFOR	HURST, A.	9/21/99	US
5,982,658	MRAM DESIGN TO REDUCE DISSIMILAR NEAREST NEIGHBOR EFFECTS	BERG, Lonny L.	11/9/99	US
6,027,948	METHOD AND APPARATUS TO PERMIT HIGH TEMPERATURE ASSEMBLY PROCESSES FOR MAGNETICALLY SENSITIVE DEVICES	HURST, A.	2/2/00	US
6,048,739	METHOD OF MANUFACTURING A HIGH DENSITY MAGNETIC MEMORY DEVICE	HURST, Alan T.	4/11/00	US
4,953,002	SEMICONDUCTOR DEVICE HOUSING WITH MAGNETIC FIELD PROTECTION	KAWAL, T.	8/28/90	US
4,754,431	VIALESS SHORTING BARS FOR MAGNETORESISTIVE DEVICES	JENSON, M.L.	6/28/88	US/EP/Netherlands/Japan/Great Britain/Germany/France
5,939,772	SHIELDED PACKAGE FOR MAGNETIC DEVICES	HURST, Alan T.	8/17/99	US

## Pending Patent Applications

Docket Number	Title	First Inventor	Filing Date	Countries
25561	LOCAL SHIELDING FOR MEMORY CELLS	SATHER, Jeffrey Scott	5/25/99	US/EP/PT/Taiwan
25562	MRAM ARCHITECTURES FOR INCREASED WRITE SELECTIVITY	ARROTT, Anthony S.	7/18/00	US
25563	METHOD AND APPARATUS FOR WRITING DATA STATES TO NON-VOLATILE STORAGE DEVICES	LU, Yong	12/7/99	US

COPY

25588	METHOD AND APPARATUS FOR READING A MAGNETORESISTIVE MEMORY	LU, Yong	7/30/99	US
26025	MAGNETO-RESISTIVE MEMORY WITH SHARE WORDLINE AND SENSE LINE	JOHNSON, William J.	8/14/00	US
26083	MEMORY REDUNDANCY WITH PROGRAMMABLE NON-VOLATILE CONTROL	KIRCHNER, Gary D.	7/18/00	US
26090	MAGNETOC-RESISTIVE MEMORY ARRAY	KATTI, Romney R.	7/18/00	US
26091	PULSED WRITE TECHNIQUES FOR MAGNETO-RESISTIVE MEMORIES	KATTI, Romney R.	8/14/00	US
26310	MAGNETO-RESISTIVE MEMORY HAVING SENSE AMPLIFIER WITH OFFSET CONTROL	DRIES, Michael Frederick	7/18/00	US
17150/25629	NON-VOLATILE STORAGE ELEMENT	GADBOIS, Jason B.	4/14/98	US
17158A1	NON-VOLATILE STORAGE ELEMENT	GADBOIS, Jason B.	8/14/99	US
17158B1	NON-VOLATILE STORAGE ELEMENT	GADBOIS, Jason B.	10/28/99	US
17158U5	NON-VOLATILE STORAGE ELEMENT	GADBOIS, Jason B.	4/14/98	US/PCT
25637/26028	PASSIVATED MAGNETO-RESTRICTIVE BIT STRUCTURE AND PASSIVATION METHOD THEREFOR	BERG, Lonny L.	8/14/00	US